

Text for submission to FCC on Mandated Receiver Standards.

Tait Electronics Ltd. is an internationally respected manufacturer and supplier of Land-Mobile radio equipment and systems. Equipment designed and manufactured by Tait includes Base Stations, Mobiles and Portable products covering most of the international commercial and public safety bands. Tait Electronics is currently actively pursuing a number of new technologies aimed at better utilisation of available spectrum resource.

In our view, abstract radio system modeling provides an invaluable input to the process of planning for efficient use of spectrum. Model parameters can be chosen to suit any conceivable situation. This will be necessary as the future poses difficult situations, such as finer spectrum rasters and insertion of digital emissions among analog channels. Similarly, radio system design can provide better assurance of well-engineered outcomes by using the same models.

Without FCC mandated receiver performance standards, system modeling involves making additional assumptions. As a result, model-inferred predictions become far less certain. This reduces design engineering integrity, leaving implementation as a more risky & labour-intensive exercise. This will impact on one or more of system integrity, cost and spectrum efficiency.

In the absence of mandated Receiver standards, such risks can be managed to some extent by users sticking with known major suppliers and using comprehensive implementation methodologies. However, if the playing field is to be truly level and the goals of spectrum efficiency achieved, mandated receiver standards are essential.
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